

UNCLASSIFIED

PE NUMBER: 0603432F
 PE TITLE: Polar MILSATCOM (Space)

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603432F Polar MILSATCOM (Space)
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	22.398	5.533	0.960	0.000	0.000	0.000	0.000	0.000	300.003
4052 Polar Satellite Communications	22.398	5.533	0.960	0.000	0.000	0.000	0.000	0.000	300.003

In FY 2003, Project A005, National Strategic SATCOM System (NSSS) was terminated. Advanced Polar System (PE 0604435F) will satisfy north polar region requirements beginning in FY13.

(U) A. Mission Description and Budget Item Justification

This program element acquires the Interim Polar System that provides protected communications (anti jam, anti scintillation, and low probability of intercept) for tactical users in the north polar region.

Project 4052, Polar Satellite Communications, continues funding the addition of scaled-down low data rate Milstar packages on three classified host satellites as an expedited, interim solution to protected communications requirements in the north polar region. Polar MILSATCOM is studying the feasibility of maintaining the Interim Polar capability beyond three satellites.

The Polar MILSATCOM program is in Budget Activity 4, Advanced Component Development and Prototypes, based on the 30 Mar 95 USD(A&T) memorandum to pursue the interim hosted solution (Interim Polar).

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	19.347	5.580	0.963
(U) Current PBR/President's Budget	22.398	5.533	0.960
(U) Total Adjustments	3.051	-0.047	
(U) Congressional Program Reductions		-0.047	
Congressional Rescissions			
Congressional Increases			
Reprogrammings	3.051		
SBIR/STTR Transfer			

(U) Significant Program Changes:

FY03: Increased Polar Satellite Communications funding for program cost growth at classified host program office.

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)				PE NUMBER AND TITLE 0603432F Polar MILSATCOM (Space)			PROJECT NUMBER AND TITLE 4052 Polar Satellite Communications			
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total	
4052 Polar Satellite Communications	22.398	5.533	0.960	0.000	0.000	0.000	0.000	0.000	300.003	
Quantity of RDT&E Articles	0	0	1	1	0	0	0			

FY03: Added \$9,872 from Project A005, National Strategic SATCOM System to address Project 4052 overrun. NSSS will be addressed via the Transformational Communication Architecture. Advanced Polar System (PE 0604635F) will satisfy north polar region requirements beginning in FY09.

(U) A. Mission Description and Budget Item Justification

This program element acquires the Interim Polar System that provides protected communications (anti jam, anti scintillation, and low probability of intercept) for tactical users in the north polar region.

Project 4052, Polar Satellite Communications, continues funding the addition of scaled-down low data rate Milstar packages on three classified host satellites as an expedited, interim solution to protected communications requirements in the north polar region. Polar MILSATCOM is studying the feasibility of maintaining the Interim Polar capability beyond three satellites.

The Polar MILSATCOM program is in Budget Activity 4, Advanced Component Development and Prototypes, based on the 30 Mar 95 USD(A&T) memorandum to pursue the interim hosted solution (Interim Polar).

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Assemble payload and integrate with host vehicle for Interim Polar packages 2 and 3. (Through the classified host contract)	22.398		
(U) Conduct final integration and tests of Polar package 2. Integrate Polar package 3 with host vehicle. (Through the classified host contract)		5.533	
(U) Continue integration and test of Polar package 3 with host vehicle. (Through the classified host contract)			0.960
(U) Total Cost	22.398	5.533	0.960

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	

(U) None.
The Navy has used its own PE(s) to modify control systems and terminals to work with Interim Polar.

(U) D. Acquisition Strategy

The Air Force provides funds to the classified host program office to modify the host satellite system contract to include the Polar EHF package. The host program office has total acquisition responsibility for Interim Polar.

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Exhibit R-3, RDT&E Project Cost Analysis										DATE February 2004		
BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)				PE NUMBER AND TITLE 0603432F Polar MILSATCOM (Space)				PROJECT NUMBER AND TITLE 4052 Polar Satellite Communications				
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
			<u>Prior to FY 2003 Cost</u>	<u>2003 Cost</u>	<u>2003 Award Date</u>	<u>2004 Cost</u>	<u>2004 Award Date</u>	<u>2005 Cost</u>	<u>2005 Award Date</u>			
(U) <u>Product Development</u>												
Classified	Classified		271.112	22.398		5.533		0.960			300.003	
N/A											0.000	
Subtotal Product Development			271.112	22.398		5.533		0.960		0.000	300.003	0.000
Remarks:												
(U) <u>Support</u>												
N/A											0.000	
N/A											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
N/A											0.000	
N/A											0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			271.112	22.398		5.533		0.960		0.000	300.003	0.000

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY

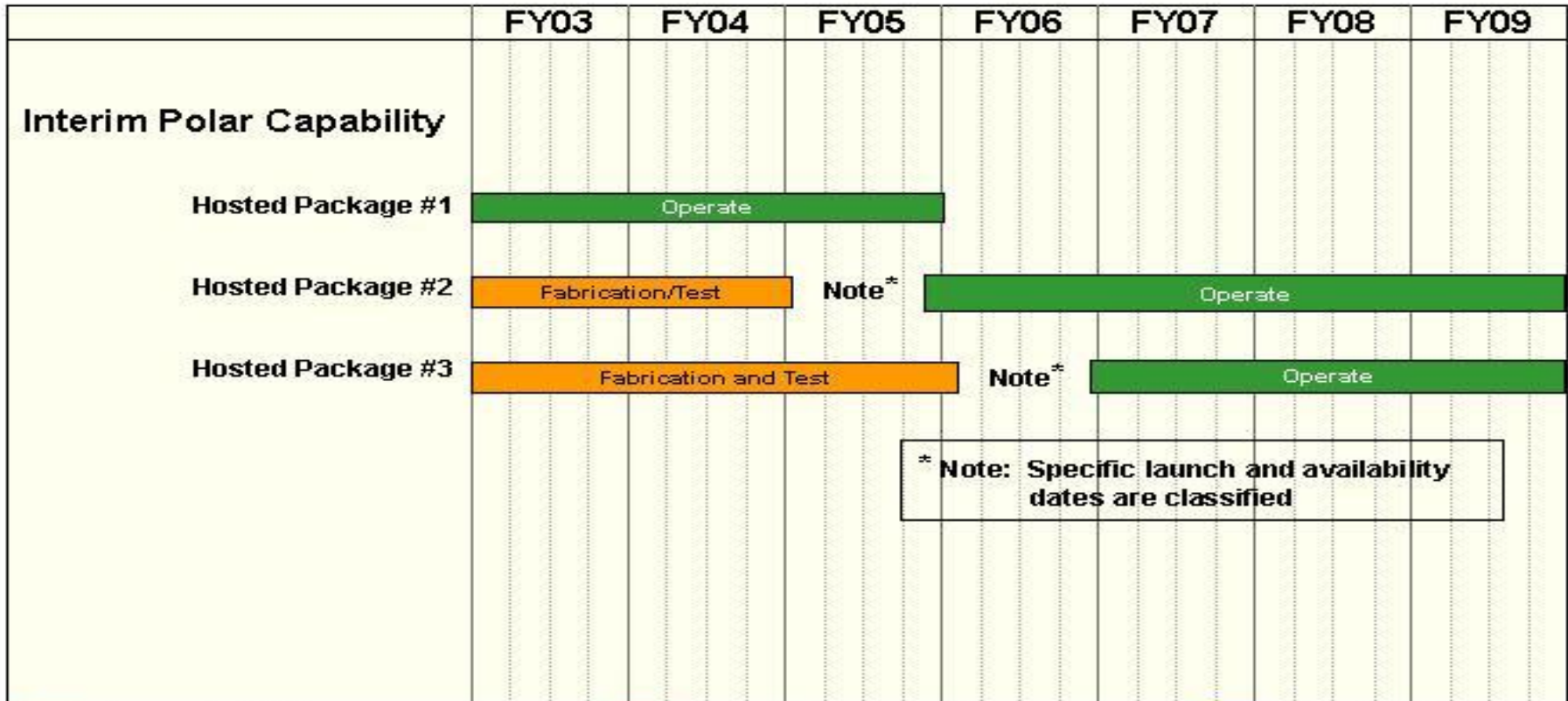
04 Advanced Component Development and Prototypes (ACD&P)

PE NUMBER AND TITLE

0603432F Polar MILSATCOM (Space)

PROJECT NUMBER AND TITLE

4052 Polar Satellite Communications



■ Concept activities
■ Production / fielding

■ Design / development
■ Operations / sustainment

■ Integration / test
 △◇ Key events

Exhibit R-4a, RDT&E Schedule Detail		DATE February 2004
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BUDGET ACTIVITY 04 Advanced Component Development and Prototypes (ACD&P)	PE NUMBER AND TITLE 0603432F Polar MILSATCOM (Space)	PROJECT NUMBER AND TITLE 4052 Polar Satellite Communications
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(U) Schedule Profile	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Acquisition activities and dates are classified			